

I hereby state that the amendments included in the substitute Sequence Listing are supported in the application, as filed, at least in the original Sequence Listing, for the amendments to SEQ ID NOs:1, 3, 5, 6, 7, 8, 11, 12, 15, 16, 23, 24, 28, 31, 32, 35, 36, and 39. The amendments to <110> and <140> in the Sequence Listing reflect U.S. filing information. Thus, the substitute Sequence Listing does not include new matter.

A copy of the substitute Sequence Listing in computer readable form, along with the required Statement under 37 C.F.R. 1.821(g) and 1.825(b), are filed simultaneously herewith and serve as the response to the NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 (copy enclosed).

Please charge any necessary fees or credits to Deposit Account 04-1928 (E. I. du Pont de Nemours and Company).

In view of the foregoing, allowance of the above-referenced application is respectfully requested.

Respectfully submitted,



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Dated: 22 May 2002

Enclosures: copy of NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371
substitute Sequence Listing

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FIGURE 1

FIGURE 1 CONTINUED

SEQ ID NO:14
SEQ ID NO:30
SEQ ID NO:34
SEQ ID NO:38
SEQ ID NO:43
SEQ ID NO:44

GAAASLVSFRVDSVDSLARGDVELEAPDGVAGAGAVSSRGGDAGRVRVTVRKSTSSRS
DTAAASIVSIIHVDSDYNSLSD-GROPLETEAI-----*-
ETAGSITSFVDSVDSL-GREPIQTDAEI-----*-
DVGASITASFRVDSVDSL-GREPIQTDAEI-----*-
DVGASITASFRVDSVDSL-GREPIQTDAEI-----*-
ETAGSITSFVDSVDSL-GREPIQTDAEI-----*-
DTAGSIVSIIHVDSDIMSLD-GROPLETEAI-----*-
181.

SEQ ID NO:14
SEQ ID NO:30
SEQ ID NO:34
SEQ ID NO:38
SEQ ID NO:43
SEQ ID NO:44

EAAACSHSHSQ-----TMOPRVSNLSGEIYSLLOSSRRIPTPRESSFNHADFFNIVGAA-
DI---FSRR---SQGLSSITPRPSNLTAEIYSLLOSSRRIPTPRESSFNHDTFSMMAAG-
MIS-SFNKSHITSM-----TPRASNLTGVEIYSLLOSSRRIPTPRESSFNQTDYAFM-ASK
TGGHAGAGRSGIYRGASNAINTPRASNLTGVEIYSLLOSSRRIPTPRESSFNQDYSMENGSK
MIS-SFNKSHIGGLASSMTPRASNLTGVEIYSLLOSSRRIPTPRESSFNQTDYAFMENASK
DI---YSRR---SQGLSAT-PRPSNLTAEIYSLLOSSRNPTPRSSSENHTDFYFSMMAAG-
241.

-AKGG-----GGAADE-----
-----G-RNSNF-----GASD-VVGLSASRGPTPRPSNYDEDGSKP-K-----
APSPKHGYTNFSQSNNGGIG-DVYSLQSSKGATRTSNTEEMLKMHKK--RGGRSMSGSE
LASPKG-----QPVAGGGG-----ARGQGLDEQVANK-----
APSPPHGYTNSYGGAGAGPGDGYSLQSSKGVTERTSNDEEMKATAKKAGRGGRSMSGSE
-----GGRNSNF-----GPGEAVFG---SKGPTPRPSNYEEDGSP---KPTAAGTAAGAG
301.

-EDGKLHVTVRKSNASRS
-GEDGKLHVTVRVRS-AASS
-GRDGRVHVTVRSSAASS
-GDDGKLHVTVRSSAASS
-KEDGKLHVTVRKSNASRS
240

-TMOPTVSNLGEIYSLLOSSRRIPTPRESSFNHADFFNIVGAA-
MIS-SFNKSHITSM-----TPRASNLTGVEIYSLLOSSRRIPTPRESSFNHDTFSMMAAG-
TGGHAGAGRSGIYRGASNAINTPRASNLTGVEIYSLLOSSRRIPTPRESSFNQTDYAFM-ASK
MIS-SFNKSHIGGLASSMTPRASNLTGVEIYSLLOSSRRIPTPRESSFNQDYSMENGSK
DI---YSRR---SQGLSAT-PRPSNLTAEIYSLLOSSRNPTPRSSSENHTDFYFSMMAAG-
360

FIGURE 1 CONTINUED

SEQ ID	NO:14	NO:30	NO:34	NO:38	NO:43	NO:44
SSEQ ID	SRSTKNGGG-ADKGGPTLS-KLGSNSTAQLYPKD---DGEGRAAA VAMPASVMTRLI	NHRDT---QEDYLEKDEFSEFN---EMDRMNOLEGEKVGDK---PKTMPPASVMTRLI	GEREPENDEG---AKIPASGSPYTCQRKVMDENGAN-KNOQNPASVMTRLI	GAVEVEIEDSMKMSPATGLGAKFPGSPVYPRKKGADVPGLEAAHMPASVMTRLI	YEMDDGNNNG---GK---SPTMGKRSDDGGPGRKQOMPA SVMTRLI	NQ---YVEREEFSFGNK---DDDSKVLATDGNNNISNKTTQAKYRMPPTSVMTRLI
BSEQ ID	*****	*****	*****	*****	*****	*****
EQ ID	481	540	541	542	543	544

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FIGURE 1 CONTINUED

 LIMWWRKLIRNPNTYSSLLIGVWSLVSYRNQIEMPATIARTSISLSDAGLMAMFSLGLF
 LIMWWRKLIRNPNTYSSLLIGVWSLVSEFWNINEMPAITAKSISLSDAGLMAMFSLGLF
 LIMWWRKLIRNPNTYSSLLIGVWSLVSEFWNINEMPAITAKSISLSDAGLMAMFSLGLF
 LIMWWRKLIRNPNTYSSLLIGVWSLVSEFWNINEMPAITAKSISLSDAGLMAMFSLGLF
 LIMWWRKLIRNPNTYSSLLIGVWSLVSEFWNINEMPAITAKSISLSDAGLMAMFSLGLF
 LIMWWRKLIRNPNTYSSLLIGVWSLVSEFWNINEMPAITAKSISLSDAGLMAMFSLGLF
 LIMWWRKLIRNPNTYSSLLIGVWSLVSEFWNINEMPAITAKSISLSDAGLMAMFSLGLF
 541

 MALQPKIITAGCKVLAIAAGVREYAGPAWAIAASTAVGLRGVLHLIAIVQALPQGIVPF
 MALQPRVIAGCNSTAFAAMAVRELTGPVWAIAASTAVGLKGVLHVIAIVQALPQGIVPF
 MALQPKIITAGCKVSAFSMAMVRELTGPVTAATSIGLGRGVLLHVIAIVQALPQGIVPF
 MALQPKIISCGCKVATFAMAVRELTGPVTAATSIGLGRGVLLHVIAIVQALPQGIVPF
 MALQPKIITAGCKVAGFAMAVRELTGPVTAATSIGLGRGVLLHVIAIVQALPQGIVPF
 MALNFRITIAGNRRAAAAMRFVVGPAVMLVASYAVGLRGVLHVIAIVQALPQGIVPF
 601

 VFAKEGVHPDILSTAVIGMIALPITLYVILGL
 VFAKEYNVHPDILSTAVIGMIALPITLYVILGL
 VFAKEYNLHDILSTAVIFGMIALPITLYVILGV
 VFAKEYNCHFQDILSTAVIFGMIALPITLYVILGI
 VFAKEYNVHPDILSTAVIGMIALPITLYVILGL
 VFAKEYNVHPDILSTAVIFGMIALPITLYVILGL
 661

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